

GeDiPNet Cluster 528 -- 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: 2026-10-20 03:23:14. · Rows: 15 · Generated: 2026-10-19 23:18:17

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
porphyrin-containing compound metabolic process	GO:0006778	3	UROD, CYP1A1, CYP1A2	7	7	1144.10	1.126e-9	2.572e-7
protoporphyrinogen IX biosynthetic process	GO:0006782	3	CPOX, UROD, ALAD	9	7	889.86	2.701e-9	5.545e-7
heme O biosynthetic process	GO:0048034	3	CPOX, UROD, ALAD	9	7	889.86	2.701e-9	5.545e-7
heme A biosynthetic process	GO:0006784	3	CPOX, UROD, ALAD	10	7	800.87	3.858e-9	7.608e-7
heme B biosynthetic process	GO:0006785	3	CPOX, UROD, ALAD	10	7	800.87	3.858e-9	7.608e-7
response to arsenic-containing substance	GO:0046685	3	CPOX, ALAD, CYP1A1	11	7	728.06	5.304e-9	1.010e-6
porphyrin-containing compound biosynthetic process	GO:0006779	3	CPOX, UROD, ALAD	11	7	728.06	5.304e-9	1.010e-6
response to iron ion	GO:0010039	3	CPOX, ALAD, HFE	18	7	444.93	2.620e-8	4.085e-6
heme biosynthetic process	GO:0006783	3	CPOX, UROD, ALAD	27	7	296.62	9.378e-8	1.199e-5
xenobiotic catabolic process	GO:0042178	3	CYP1A1, CYP1A2, GSTM1	28	7	286.03	1.050e-7	1.324e-5
dibenzo-p-dioxin metabolic process	GO:0018894	2	CYP1A1, CYP1A2	3	7	1779.71	3.608e-7	3.692e-5
olefinic compound metabolic process	GO:0120254	2	CYP1A1, CYP1A2	4	7	1334.79	7.214e-7	6.577e-5
response to herbicide	GO:0009635	2	ALAD, CYP1A1	5	7	1067.83	1.202e-6	9.986e-5
response to methylmercury	GO:0051597	2	CPOX, ALAD	6	7	889.86	1.803e-6	1.394e-4
steroid catabolic process	GO:0006706	2	CYP1A1, CYP1A2	7	7	762.73	2.524e-6	1.827e-4