

GeDiPNet Cluster 175 -- 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: 2026-10-07 23:45:57

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
DNA replication	GO:0006260	12	DONSON, ORC1, SIN3A, CDC45, CDC6, CDT1, GINS3, MCM3, MCM7, ORC4, ORC6, MCM5	131	22	77.81	5.127e-21	9.470e-18
DNA replication initiation	GO:0006270	8	ORC1, CDC45, CDC6, MCM3, MCM7, ORC4, ORC6, MCM5	27	22	251.68	1.904e-18	2.375e-15
regulation of DNA-templated DNA replication initiation	GO:0030174	5	CDT1, GMNN, MCM3, MCM7, MCM5	14	22	303.36	2.759e-12	1.137e-9
double-strand break repair via break-induced replication	GO:0000727	4	CDC45, MCM3, MCM7, MCM5	12	22	283.14	7.085e-10	1.596e-7
mitotic DNA replication checkpoint signaling	GO:0033314	3	DONSON, ORC1, CDC6	11	22	231.66	2.323e-7	2.499e-5
DNA replication checkpoint signaling	GO:0000076	3	CDC45, CDC6, CDT1	13	22	196.02	4.020e-7	3.925e-5
DNA replication preinitiation complex assembly	GO:0071163	2	CDT1, GMNN	2	22	849.41	1.323e-6	1.049e-4
negative regulation of DNA-templated DNA replication	GO:2000104	2	CDT1, GMNN	2	22	849.41	1.323e-6	1.049e-4
positive regulation of chromatin binding	GO:0035563	2	CDT1, GMNN	7	22	242.69	2.769e-5	1.165e-3
DNA strand elongation involved in DNA replication	GO:0006271	2	MCM3, MCM7	8	22	212.35	3.689e-5	1.455e-3
negative regulation of DNA replication	GO:0008156	2	CDC6, GMNN	16	22	106.18	1.572e-4	4.336e-3
replication fork processing	GO:0031297	2	DONSON, TRAP	41	22	41.43	1.055e-3	1.596e-2
response to methylglyoxal	GO:0051595	1	SIN3A	1	22	849.41	1.177e-3	1.702e-2
cellular response to tert-butyl hydroperoxide	GO:0072736	1	SIN3A	1	22	849.41	1.177e-3	1.702e-2
mitotic DNA replication preinitiation complex assembly	GO:1902977	1	CDC45	1	22	849.41	1.177e-3	1.702e-2