

GeDiPNet Cluster 601 -- 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: 2026-10-20 00:01:13

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
cellular response to hydrogen peroxide	GO:0070301	7	AIFM1, AQP1, HSF1, IL6, MAP3K5, PRKAA1, SIRT1	69	63	30.09	3.216e-9	6.490e-7
negative regulation of apoptotic process	GO:0043066	11	AQP1, ATF5, EIF2AK2, GDNF, HTT, IGF1, IL6, PRDM9, PRKAA1, PRNP, SIRT1	524	63	6.23	1.249e-6	1.030e-4
regulation of neuronal synaptic plasticity	GO:0048168	4	GRIN2A, GRIN2B, JPH3, NOG	26	63	45.63	1.658e-6	1.304e-4
cell surface receptor signaling pathway via STAT	GO:0097696	4	CNTF, IGF1, IL6, IL6R	28	63	42.37	2.260e-6	1.677e-4
hepatic immune response	GO:0002384	2	IL6, IL6R	2	63	296.62	1.119e-5	5.938e-4
positive regulation of inositol 1,4,5-trisphosphate-sensitive calcium-release channel activity	GO:0031587	2	HAP1, HTT	2	63	296.62	1.119e-5	5.938e-4
positive regulation of apoptotic process	GO:0043065	8	AIFM1, DIABLO, GRIN2A, HTT, IL6, IP6K2, MAP3K5, SIRT1	326	63	7.28	1.324e-5	6.758e-4
negative regulation of neuron apoptotic process	GO:0043524	6	BDNF, CNTF, GDNF, GRIK2, PPARGC1A, SIRT1	160	63	11.12	1.628e-5	7.922e-4
glutamate receptor signaling pathway	GO:0007215	3	GRIK2, GRIN2A, GRIN2B	19	63	46.83	3.405e-5	1.383e-3
protein destabilization	GO:0031648	4	HTT, PRKAA1, PRNP, SIRT1	60	63	19.77	4.964e-5	1.837e-3
monoatomic cation transmembrane transport	GO:0098655	4	AQP1, GRIN2A, GRIN2B, TRPM1	61	63	19.45	5.300e-5	1.931e-3
ionotropic glutamate receptor signaling pathway	GO:0035235	3	GRIK2, GRIN2A, GRIN2B	23	63	38.69	6.163e-5	2.163e-3
positive regulation of dopamine metabolic process	GO:0045964	2	ABAT, NPY	4	63	148.31	6.682e-5	2.288e-3
exploration behavior	GO:0035640	3	ABAT, JPH3, NOG	25	63	35.59	7.966e-5	2.613e-3
excitatory postsynaptic potential	GO:0060079	4	GRIK2, GRIN2A, GRIN2B, SLC29A1	69	63	17.20	8.604e-5	2.766e-3