

GeDiPNet Cluster 271 -- 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 19:05:17

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
monoatomic ion transport	GO:0006811	9	CHRNA2, CHRNA4, CHRN2, GABRG2, KCNT1, ATP6V0C, SLC4A10, SCN8A, SCN1A	667	17	14.83	1.677e-9	3.466e-7
monoatomic ion transmembrane transport	GO:0034220	7	CHRNA2, CHRNA4, CHRN2, GABRG2, KCNT1, SCN8A, SCN1A	404	17	19.05	3.382e-8	4.833e-6
synaptic transmission, cholinergic	GO:0007271	3	CHRNA2, CHRNA4, CHRN2	25	17	131.91	1.421e-6	1.113e-4
acetylcholine receptor signaling pathway	GO:0095500	3	CHRNA2, CHRNA4, CHRN2	28	17	117.78	2.020e-6	1.477e-4
membrane depolarization	GO:0051899	3	CHRNA2, CHRNA4, CHRN2	32	17	103.05	3.051e-6	2.062e-4
response to nicotine	GO:0035094	3	CHRNA2, CHRNA4, CHRN2	40	17	82.44	6.051e-6	3.565e-4
action potential	GO:0001508	3	CHRNA4, SCN8A, SCN1A	53	17	62.22	1.424e-5	6.996e-4
regulation of postsynaptic membrane potential	GO:0060078	3	CHRNA2, CHRN2, GABRG2	59	17	55.89	1.970e-5	9.014e-4
response to acetylcholine	GO:1905144	2	CHRNA2, CHRN2	8	17	274.81	2.174e-5	9.721e-4
behavioral response to nicotine	GO:0035095	2	CHRNA4, CHRN2	9	17	244.27	2.794e-5	1.172e-3
excitatory postsynaptic potential	GO:0060079	3	CHRNA2, CHRNA4, CHRN2	69	17	47.79	3.157e-5	1.286e-3
chemical synaptic transmission	GO:0007268	4	CHRNA4, CHRN2, CRH, GABRG2	236	17	18.63	5.186e-5	1.885e-3
regulation of dopamine secretion	GO:0014059	2	CHRNA4, CHRN2	15	17	146.56	8.122e-5	2.655e-3
locomotory exploration behavior	GO:0035641	2	CRH, SLC4A10	16	17	137.40	9.278e-5	2.927e-3
cardiac muscle cell action potential involved in contraction	GO:0086002	2	SCN8A, SCN1A	24	17	91.60	2.125e-4	5.374e-3