

GeDiPNet Cluster 286 -- 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 07:08:26

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
monoatomic ion transmembrane transport	GO:0034220	9	SCN1A, CACNB4, CHRNA1, CLCN2, GABRA1, GABRA2, GABRD, KCNQ3, CHRNA2	404	32	13.01	1.705e-8	2.679e-6
regulation of postsynaptic membrane potential	GO:0060078	5	CHRNA1, GABRA1, GABRA2, GABRD, CHRNA2	59	32	49.49	4.977e-8	6.776e-6
monoatomic ion transport	GO:0006811	10	SCN1A, ATP6V0C, CACNB4, CHRNA1, CLCN2, GABRA1, GABRA2, GABRD, KCNQ3, CHRNA2	667	32	8.76	9.939e-8	1.212e-5
gamma-aminobutyric acid signaling pathway	GO:0007214	4	CACNB4, GABRA1, GABRA2, GABRD	30	32	77.86	1.881e-7	2.092e-5
chloride transport	GO:0006821	4	CLCN2, GABRA1, GABRA2, GABRD	81	32	28.84	1.074e-5	5.605e-4
neuromuscular synaptic transmission	GO:0007274	3	STXBP1, CHRNA1, CHRNA2	31	32	56.51	1.985e-5	9.062e-4
adult walking behavior	GO:0007628	3	CNTN2, SCN1A, CACNB4	34	32	51.53	2.633e-5	1.124e-3
neuronal action potential	GO:0019228	3	SCN1A, CHRNA1, KCNQ3	34	32	51.53	2.633e-5	1.124e-3
synaptic transmission, GABAergic	GO:0051932	3	GABRA1, GABRA2, GABRD	35	32	50.05	2.876e-5	1.199e-3
chloride transmembrane transport	GO:1902476	4	CLCN2, GABRA1, GABRA2, GABRD	114	32	20.49	4.140e-5	1.593e-3
establishment of localization in cell	GO:0051649	4	CNTN2, SCN1A, STXBP1, KCNQ3	147	32	15.89	1.114e-4	3.346e-3
neuronal action potential propagation	GO:0019227	2	SCN1A, CACNB4	11	32	106.18	1.548e-4	4.282e-3
regulation of synaptic plasticity	GO:0048167	3	RAPGEF2, KCNQ3, CHRNA2	69	32	25.39	2.213e-4	5.524e-3
synapse organization	GO:0050808	3	CNTN2, CTNND2, CAPRIN1	72	32	24.33	2.510e-4	6.029e-3
regulation of membrane potential	GO:0042391	3	SCN1A, CACNB4, CHRNA1	85	32	20.61	4.095e-4	8.533e-3