

GeDiPNet Cluster 227 -- 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: 2026-10-07 03:23:06. · Rows: 15 · Generated: 2026-10-07 15:04:22

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	24	ATP7A, CACNA1A, CACNA2D2, CACNB4, GABRA1, GABRA4, HCN1, SCN8A, CACNA1H, GABRA6, GABRB3, GABRG2	667	45	14.94	2.273e-23	5.979e-20
monoatomic ion transmembrane transport	GO:0034220	20	CACNA1A, CACNA2D2, CACNB4, GABRA1, GABRA4, HCN1, SCN8A, CACNA1H, GABRA6, GABRB3, GABRG2, KCNK9	404	45	20.56	6.023e-22	1.277e-18
gamma-aminobutyric acid signaling pathway	GO:0007214	9	CACNB4, GABRA1, GABRA4, GABRA6, GABRB3, GABRG2, GABRD, GABRA5, GABRB2	30	45	124.58	1.599e-17	1.799e-14
chloride transmembrane transport	GO:1902476	11	GABRA1, GABRA4, GABRA6, GABRB3, GABRG2, CASR, CLCN2, GABRD, SLC12A5, GABRA5, GABRB2	114	45	40.07	2.268e-15	1.670e-12
chloride transport	GO:0006821	10	GABRA1, GABRA4, GABRA6, GABRB3, GABRG2, CLCN2, GABRD, SLC12A5, GABRA5, GABRB2	81	45	51.27	3.719e-15	2.638e-12
synaptic transmission, GABAergic	GO:0051932	8	GABRA1, GABRA4, GABRA6, GABRB3, GABRG2, GABRD, GABRA5, GABRB2	35	45	94.92	1.314e-14	8.370e-12
inhibitory synapse assembly	GO:1904862	7	GABRA1, GABRA4, GABRA6, GABRB3, GABRG2, GABRA5, GABRB2	25	45	116.27	1.340e-13	7.220e-11
regulation of postsynaptic membrane potential	GO:0060078	8	GABRA1, GABRA4, HCN1, GABRA6, GABRG2, GABRD, GABRA5, GABRB2	59	45	56.31	1.186e-12	5.382e-10
chemical synaptic transmission	GO:0007268	10	CACNA1A, CACNB4, SNCA, GABRB3, GABRG2, NPY, GABRD, SLC12A5, GABRA5, GABRB2	236	45	17.60	1.848e-10	4.976e-8
regulation of membrane potential	GO:0042391	7	CACNB4, HCN1, CACNA1H, KCNMA1, HCN2, HCN4, WWP2	85	45	34.20	1.236e-9	2.712e-7
transmembrane transport	GO:0055085	11	ABCB7, CACNA1A, HCN1, SCN8A, SLC2A1, CACNA1H, CLCN2, SLC12A5, KCNMA1, HCN2, HCN4	557	45	8.20	6.053e-8	7.962e-6
potassium ion import across plasma membrane	GO:1990573	5	HCN1, KCNK9, SLC12A5, HCN2, HCN4	46	45	45.14	8.201e-8	1.017e-5
cellular response to histamine	GO:0071420	3	GABRB3, GABRG2, GABRB2	6	45	207.63	2.597e-7	2.699e-5
inner ear receptor cell development	GO:0060119	3	GABRB3, GABRA5, GABRB2	8	45	155.73	7.246e-7	6.404e-5
sodium ion transmembrane transport	GO:0035725	6	HCN1, SCN8A, SCN1B, KCNK9, HCN2, HCN4	134	45	18.59	7.865e-7	6.824e-5