

GeDiPNet Cluster 573 -- Enriched Pathways

Pathway enrichment: KEGG + Reactome, upper-tail hypergeometric test, Benjamini-Hochberg FDR-corrected. Fold enrichment = (overlap / cluster gene count) / (pathway gene count / universe size). Top 15 pathways per cluster by q-value. See scripts/build_cluster_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-20 03:30:09. · Rows: 15 · Generated: 2026-10-20 00:02:41

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Arrhythmogenic right ventricular cardiomyopathy	KEGG	2	SGCD, SLC8A1	86	19	14.70	8.008e-3	4.956e-2
Hypertrophic cardiomyopathy	KEGG	2	SGCD, SLC8A1	99	19	12.77	1.050e-2	5.857e-2
Dilated cardiomyopathy	KEGG	2	SGCD, SLC8A1	105	19	12.04	1.175e-2	6.273e-2
Uptake and function of anthrax toxins	Reactome	1	MAP2K4	13	19	48.62	2.038e-2	8.671e-2
Sodium/Calcium exchangers	Reactome	1	SLC8A1	13	19	48.62	2.038e-2	8.671e-2
Reduction of cytosolic Ca++ levels	Reactome	1	SLC8A1	14	19	45.15	2.193e-2	9.030e-2
Pink/Parkin Mediated Mitophagy	Reactome	1	MFN2	22	19	28.73	3.426e-2	1.166e-1
JNK (c-Jun kinases) phosphorylation and activation mediated by activated human TAK1	Reactome	1	MAP2K4	23	19	27.48	3.579e-2	1.194e-1
Budding and maturation of HIV virion	Reactome	1	CHMP4B	29	19	21.80	4.493e-2	1.362e-1
Sealing of the nuclear envelope (NE) by ESCRT-III	Reactome	1	CHMP4B	31	19	20.39	4.795e-2	1.414e-1
Endosomal Sorting Complex Required For Transport (ESCRT)	Reactome	1	CHMP4B	32	19	19.75	4.946e-2	1.440e-1
FCER1 mediated MAPK activation	Reactome	1	MAP2K4	32	19	19.75	4.946e-2	1.440e-1
Phase 0 - rapid depolarisation	Reactome	1	FGF12	44	19	14.37	6.741e-2	1.717e-1
Virion - Hepatitis viruses	KEGG	1	CHMP4B	48	19	13.17	7.332e-2	1.803e-1
Endocrine and other factor-regulated calcium reabsorption	KEGG	1	SLC8A1	53	19	11.93	8.066e-2	1.905e-1