

GeDiPNet Cluster 212 -- 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: 2026-10-07 03:30:09. · Rows: 15 · Generated: 2026-10-07 20:45:39

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Dilated cardiomyopathy	KEGG	5	DMD, SNTA1, ADCY1, ADCY8, SLC8A1	105	39	14.66	2.110e-5	6.259e-4
Regulation of IFNA signaling	Reactome	3	PTPN1, USP18, STAT2	24	39	38.49	6.113e-5	1.502e-3
Arrhythmogenic right ventricular cardiomyopathy	KEGG	4	DMD, PKP2, SNTA1, SLC8A1	86	39	14.32	1.665e-4	3.383e-3
Adenylate cyclase activating pathway	Reactome	2	ADCY1, ADCY8	10	39	61.59	4.549e-4	7.403e-3
Ovarian steroidogenesis	KEGG	3	ADCY1, ADCY8, PTGS2	52	39	17.77	6.268e-4	9.519e-3
Regulation of lipolysis in adipocytes	KEGG	3	ADCY1, ADCY8, PTGS2	59	39	15.66	9.076e-4	1.262e-2
Adenylate cyclase inhibitory pathway	Reactome	2	ADCY1, ADCY8	14	39	43.99	9.123e-4	1.266e-2
PKA activation in glucagon signalling	Reactome	2	ADCY1, ADCY8	17	39	36.23	1.355e-3	1.703e-2
PKA activation	Reactome	2	ADCY1, ADCY8	19	39	32.42	1.697e-3	2.022e-2
Glucagon signaling in metabolic regulation	Reactome	2	ADCY1, ADCY8	26	39	23.69	3.179e-3	3.207e-2
PTEN Loss of Function in Cancer	Reactome	1	PTEN	1	39	307.95	3.247e-3	3.258e-2
Biosynthesis of EPA-derived SPMs	Reactome	1	PTGS2	1	39	307.95	3.247e-3	3.258e-2
Biosynthesis of DPAn-3 SPMs	Reactome	1	PTGS2	1	39	307.95	3.247e-3	3.258e-2
Hypertrophic cardiomyopathy	KEGG	3	DMD, SNTA1, SLC8A1	99	39	9.33	4.004e-3	3.771e-2
G alpha (z) signalling events	Reactome	2	ADCY1, ADCY8	33	39	18.66	5.091e-3	4.425e-2