

GeDiPNet Cluster 256 -- 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: 2026-10-09 03:30:08. · Rows: 15 · Generated: 2026-10-09 13:03:22

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	4	DSP, JUP, LMNA, RYR2	86	5	111.72	1.219e-8	9.765e-7
Cytoskeleton in muscle cells	KEGG	4	DSP, JUP, LMNA, TTN	232	5	41.41	6.684e-7	3.286e-5
Hypertrophic cardiomyopathy	KEGG	3	LMNA, TTN, RYR2	99	5	72.79	5.369e-6	1.945e-4
Dilated cardiomyopathy	KEGG	3	LMNA, TTN, RYR2	105	5	68.63	6.412e-6	2.234e-4
Formation of the cornified envelope	Reactome	2	DSP, JUP	130	5	36.95	1.138e-3	1.484e-2
Breakdown of the nuclear lamina	Reactome	1	LMNA	3	5	800.67	1.249e-3	1.593e-2
Keratinization	Reactome	2	DSP, JUP	152	5	31.61	1.552e-3	1.886e-2
Nuclear Envelope Breakdown	Reactome	1	LMNA	9	5	266.89	3.742e-3	3.577e-2
Apoptotic cleavage of cell adhesion proteins	Reactome	1	DSP	11	5	218.36	4.572e-3	4.120e-2
Depolymerisation of the Nuclear Lamina	Reactome	1	LMNA	15	5	160.13	6.230e-3	5.078e-2
Initiation of Nuclear Envelope (NE) Reformation	Reactome	1	LMNA	19	5	126.42	7.886e-3	5.941e-2
VEGFR2 mediated vascular permeability	Reactome	1	JUP	29	5	82.83	1.202e-2	7.759e-2
Adherens junctions interactions	Reactome	1	JUP	32	5	75.06	1.325e-2	8.234e-2
Neutrophil degranulation	Reactome	2	DSP, JUP	480	5	10.01	1.471e-2	8.767e-2
Striated Muscle Contraction	Reactome	1	TTN	36	5	66.72	1.490e-2	8.817e-2