

GeDiPNet Cluster 71 -- 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: 2026-10-08 03:30:07. · Rows: 15 · Generated: 2026-10-07 22:51:30

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
MET activates PTK2 signaling	Reactome	5	COL24A1, COL5A1, LAMB1, LAMA5, LAMC1	30	49	40.85	1.210e-7	7.725e-6
Collagen chain trimerization	Reactome	5	COL17A1, COL24A1, COL5A1, COL8A2, COL18A1	44	49	27.85	8.835e-7	4.359e-5
Assembly of collagen fibrils and other multimeric structures	Reactome	5	COL17A1, COL24A1, COL5A1, COL8A2, COL18A1	51	49	24.03	1.871e-6	8.369e-5
Laminin interactions	Reactome	4	LAMB1, COL18A1, LAMA5, LAMC1	28	49	35.01	4.659e-6	1.829e-4
Collagen biosynthesis and modifying enzymes	Reactome	5	COL17A1, COL24A1, COL5A1, COL8A2, COL18A1	67	49	18.29	7.323e-6	2.650e-4
Protein digestion and absorption	KEGG	5	COL17A1, COL24A1, COL5A1, COL8A2, COL18A1	103	49	11.90	5.947e-5	1.489e-3
Small cell lung cancer	KEGG	4	LAMB1, RXRA, LAMA5, LAMC1	93	49	10.54	5.469e-4	8.717e-3
Post-translational protein phosphorylation	Reactome	4	SPARCL1, LAMB1, LAMC1, PNPLA2	108	49	9.08	9.599e-4	1.350e-2
Collagen degradation	Reactome	3	COL5A1, COL8A2, COL18A1	52	49	14.14	1.226e-3	1.623e-2
Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins (IGFBPs)	Reactome	4	SPARCL1, LAMB1, LAMC1, PNPLA2	125	49	7.84	1.650e-3	2.029e-2
RORA activates gene expression	Reactome	2	RXRA, RORA	18	49	27.23	2.393e-3	2.658e-2
Integrin cell surface interactions	Reactome	3	COL5A1, COL8A2, COL18A1	81	49	9.08	4.356e-3	4.057e-2
Endogenous sterols	Reactome	2	CYP4V2, RXRA	25	49	19.61	4.608e-3	4.211e-2
SUMOylation of intracellular receptors	Reactome	2	RXRA, RORA	27	49	18.16	5.363e-3	4.678e-2
ECM-receptor interaction	KEGG	3	LAMB1, LAMA5, LAMC1	89	49	8.26	5.667e-3	4.852e-2