

GeDiPNet Cluster 140 -- 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 03:18:27

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Non-integrin membrane-ECM interactions	Reactome	3	COL1A1, COL1A2, PDGFB	24	17	88.31	4.681e-6	1.745e-4
AGE-RAGE signaling pathway in diabetic complications	KEGG	4	COL1A1, EGR1, TGFB2, COL1A2	101	17	27.98	1.031e-5	3.337e-4
Amoebiasis	KEGG	4	COL1A1, TGFB2, NOS2, COL1A2	103	17	27.44	1.114e-5	3.557e-4
Interleukin-4 and Interleukin-13 signaling	Reactome	4	TIMP1, HIF1A, NOS2, COL1A2	108	17	26.17	1.345e-5	4.180e-4
ECM proteoglycans	Reactome	3	COL1A1, ITGB6, COL1A2	51	17	41.56	4.704e-5	1.180e-3
Platelet Aggregation (Plug Formation)	Reactome	2	COL1A1, COL1A2	8	17	176.62	5.254e-5	1.289e-3
Platelet Adhesion to exposed collagen	Reactome	2	COL1A1, COL1A2	11	17	128.45	1.029e-4	2.243e-3
PI3K-Akt signaling pathway	KEGG	5	COL1A1, ITGB6, BCL2L11, COL1A2, PDGFB	361	17	9.78	1.096e-4	2.352e-3
Renal cell carcinoma	KEGG	3	TGFB2, HIF1A, PDGFB	70	17	30.28	1.216e-4	2.553e-3
GP1b-IX-V activation signalling	Reactome	2	COL1A1, COL1A2	12	17	117.75	1.234e-4	2.582e-3
Focal adhesion	KEGG	4	COL1A1, ITGB6, COL1A2, PDGFB	203	17	13.92	1.587e-4	3.169e-3
Proteoglycans in cancer	KEGG	4	COL1A1, TGFB2, HIF1A, COL1A2	204	17	13.85	1.617e-4	3.219e-3
Integrin cell surface interactions	Reactome	3	COL1A1, ITGB6, COL1A2	81	17	26.17	1.877e-4	3.621e-3
Extracellular matrix organization	Reactome	2	COL1A1, COL1A2	15	17	94.20	1.959e-4	3.739e-3
Anchoring fibril formation	Reactome	2	COL1A1, COL1A2	15	17	94.20	1.959e-4	3.739e-3