

GeDiPNet Cluster 467 -- 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: 2026-10-19 23:21:21

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Platelet Aggregation (Plug Formation)	Reactome	2	COL1A1, COL1A2	8	4	750.63	2.328e-6	8.575e-5
Platelet Adhesion to exposed collagen	Reactome	2	COL1A1, COL1A2	11	4	545.91	4.572e-6	1.526e-4
GP1b-IX-V activation signalling	Reactome	2	COL1A1, COL1A2	12	4	500.42	5.485e-6	1.772e-4
Extracellular matrix organization	Reactome	2	COL1A1, COL1A2	15	4	400.33	8.724e-6	2.604e-4
Anchoring fibril formation	Reactome	2	COL1A1, COL1A2	15	4	400.33	8.724e-6	2.604e-4
Crosslinking of collagen fibrils	Reactome	2	COL1A1, COL1A2	18	4	333.61	1.271e-5	3.553e-4
Non-integrin membrane-ECM interactions	Reactome	2	COL1A1, COL1A2	24	4	250.21	2.291e-5	5.832e-4
Cytoskeleton in muscle cells	KEGG	3	COL1A1, COL1A2, LBR	232	4	38.83	2.806e-5	6.863e-4
MET activates PTK2 signaling	Reactome	2	COL1A1, COL1A2	30	4	200.17	3.608e-5	8.420e-4
GPVI-mediated activation cascade	Reactome	2	COL1A1, COL1A2	34	4	176.62	4.651e-5	1.030e-3
Collagen chain trimerization	Reactome	2	COL1A1, COL1A2	44	4	136.48	7.834e-5	1.560e-3
Assembly of collagen fibrils and other multimeric structures	Reactome	2	COL1A1, COL1A2	51	4	117.75	1.055e-4	1.980e-3
ECM proteoglycans	Reactome	2	COL1A1, COL1A2	51	4	117.75	1.055e-4	1.980e-3
Collagen degradation	Reactome	2	COL1A1, COL1A2	52	4	115.48	1.097e-4	2.043e-3
Collagen biosynthesis and modifying enzymes	Reactome	2	COL1A1, COL1A2	67	4	89.63	1.826e-4	3.056e-3