

GeDiPNet Cluster 368 -- 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: 2026-10-08 19:04:21

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Extracellular matrix organization	Reactome	2	COL2A1, FN1	15	14	114.38	1.314e-4	2.823e-3
Non-integrin membrane-ECM interactions	Reactome	2	COL2A1, FN1	24	14	71.49	3.432e-4	6.062e-3
MET activates PTK2 signaling	Reactome	2	COL2A1, FN1	30	14	57.19	5.388e-4	8.612e-3
ECM proteoglycans	Reactome	2	COL2A1, FN1	51	14	33.64	1.557e-3	1.944e-2
Long-term depression	KEGG	2	PLCB3, PRKG2	60	14	28.60	2.149e-3	2.455e-2
Renin secretion	KEGG	2	PLCB3, PRKG2	69	14	24.87	2.831e-3	3.003e-2
Biosynthesis of aspirin-triggered D-series resolvins	Reactome	1	GPX4	3	14	285.95	3.493e-3	3.476e-2
Integrin cell surface interactions	Reactome	2	COL2A1, FN1	81	14	21.18	3.879e-3	3.744e-2
Biosynthesis of D-series resolvins	Reactome	1	GPX4	4	14	214.46	4.655e-3	4.241e-2
Biosynthesis of E-series 18(R)-resolvins	Reactome	1	GPX4	4	14	214.46	4.655e-3	4.241e-2
ECM-receptor interaction	KEGG	2	COL2A1, FN1	89	14	19.28	4.663e-3	4.242e-2
Gap junction	KEGG	2	PLCB3, PRKG2	89	14	19.28	4.663e-3	4.242e-2
Salivary secretion	KEGG	2	PLCB3, PRKG2	93	14	18.45	5.081e-3	4.502e-2
Circadian entrainment	KEGG	2	PLCB3, PRKG2	97	14	17.69	5.515e-3	4.766e-2
Inflammatory mediator regulation of TRP channels	KEGG	2	PLCB3, TRPV4	99	14	17.33	5.739e-3	4.900e-2