

GeDiPNet Cluster 371 -- 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 07:16:54

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Fluid shear stress and atherosclerosis	KEGG	4	HMOX1, NFE2L2, TNF, PLAT	141	20	17.04	7.621e-5	1.746e-3
Mineral absorption	KEGG	3	HMOX1, ATP7A, SLC40A1	61	20	29.53	1.336e-4	2.757e-3
Complement and coagulation cascades	KEGG	3	BDKRB1, BDKRB2, PLAT	88	20	20.47	3.960e-4	6.575e-3
Chagas disease	KEGG	3	ACE, BDKRB2, TNF	103	20	17.49	6.281e-4	9.425e-3
Renin-angiotensin system	KEGG	2	ACE, AGTR2	23	20	52.22	6.527e-4	9.692e-3
G alpha (i) signalling events	Reactome	4	AGTR2, BDKRB1, BDKRB2, S1PR1	249	20	9.65	6.727e-4	9.913e-3
Peptide ligand-binding receptors	Reactome	3	AGTR2, BDKRB1, BDKRB2	106	20	17.00	6.830e-4	1.003e-2
Interleukin-4 and Interleukin-13 signaling	Reactome	3	HMOX1, S1PR1, TNF	108	20	16.68	7.212e-4	1.046e-2
Iron uptake and transport	Reactome	2	HMOX1, SLC40A1	28	20	42.89	9.704e-4	1.310e-2
Sphingolipid signaling pathway	KEGG	3	BDKRB2, S1PR1, TNF	122	20	14.77	1.028e-3	1.369e-2
Signaling by PDGF	Reactome	2	SPP1, PLAT	33	20	36.39	1.349e-3	1.689e-2
Apelin signaling pathway	KEGG	3	SPP1, PLAT, RYR1	140	20	12.87	1.528e-3	1.863e-2
Ferroptosis	KEGG	2	HMOX1, SLC40A1	42	20	28.60	2.180e-3	2.427e-2
Neuroactive ligand-receptor interaction	KEGG	4	AGTR2, BDKRB1, BDKRB2, S1PR1	370	20	6.49	2.903e-3	2.996e-2
Defective SLC40A1 causes hemochromatosis 4 (HFE4) (macrophages)	Reactome	1	SLC40A1	2	20	300.25	3.328e-3	3.292e-2