

GeDiPNet Cluster 60 -- 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: 2026-10-08 23:16:11

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Platelet activation	KEGG	14	GP1BA, GP1BB, ITGA2B, ITGB3, GP6, TBXA2R, RASGRP2, P2RX1, P2RY12, PRKACG, FERMT3, PLA2G4A	126	35	38.13	1.799e-19	1.225e-16
ECM-receptor interaction	KEGG	7	GP1BA, GP1BB, ITGA2B, ITGB3, GP6, CD36, ITGA2	89	35	26.99	5.488e-9	4.939e-7
Platelet degranulation	Reactome	7	ACTN1, ITGA2B, ITGB3, TUBA4A, CD36, FERMT3, STXBP2	123	35	19.53	5.276e-8	3.594e-6
Hematopoietic cell lineage	KEGG	6	GP1BA, GP1BB, ITGA2B, ITGB3, CD36, ITGA2	100	35	20.59	3.824e-7	2.033e-5
Intrinsic Pathway of Fibrin Clot Formation	Reactome	4	GP1BA, GP1BB, KLKB1, SERPIND1	23	35	59.68	5.145e-7	2.624e-5
Platelet Adhesion to exposed collagen	Reactome	3	GP1BA, GP1BB, GP6	11	35	93.58	3.682e-6	1.428e-4
Phagosome	KEGG	6	ITGB3, TUBA4A, TUBA8, TUBB1, CD36, ITGA2	155	35	13.28	4.997e-6	1.839e-4
Dilated cardiomyopathy	KEGG	5	ITGA2B, ITGB3, TPM4, PRKACG, ITGA2	105	35	16.34	1.223e-5	3.854e-4
COPI-independent Golgi-to-ER retrograde traffic	Reactome	4	TUBA4A, TUBA8, TUBB1, PLA2G4A	51	35	26.91	1.370e-5	4.238e-4
Microtubule-dependent trafficking of connexons from Golgi to the plasma membrane	Reactome	3	TUBA4A, TUBA8, TUBB1	18	35	57.19	1.796e-5	5.336e-4
Cilium Assembly	Reactome	3	TUBA4A, TUBA8, TUBB1	19	35	54.18	2.128e-5	6.156e-4
Integrin signaling	Reactome	3	ITGA2B, ITGB3, RASGRP2	23	35	44.76	3.858e-5	1.005e-3
Carboxyterminal post-translational modifications of tubulin	Reactome	3	TUBA4A, TUBA8, TUBB1	27	35	38.13	6.322e-5	1.499e-3
Sealing of the nuclear envelope (NE) by ESCRT-III	Reactome	3	TUBA4A, TUBA8, TUBB1	31	35	33.21	9.637e-5	2.122e-3
RHO GTPases activate IQGAPs	Reactome	3	TUBA4A, TUBA8, TUBB1	32	35	32.17	1.061e-4	2.297e-3