

GeDiPNet Cluster 458 -- 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: 2026-10-20 00:02:41

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Cytokine-cytokine receptor interaction	KEGG	7	CCL13, CCL2, CXCL1, IL13, IL1RL1, IL1RN, NGF	298	17	16.59	8.482e-8	4.826e-6
Interleukin-10 signaling	Reactome	4	CCL2, CXCL1, ICAM1, IL1RN	47	17	60.13	4.720e-7	2.175e-5
Chemokine receptors bind chemokines	Reactome	3	CCL13, CCL2, CXCL1	59	17	35.92	7.292e-5	1.476e-3
IL-17 signaling pathway	KEGG	3	CCL2, CXCL1, IL13	94	17	22.55	2.916e-4	4.413e-3
Rheumatoid arthritis	KEGG	3	CCL2, CXCL1, ICAM1	95	17	22.31	3.009e-4	4.520e-3
Viral protein interaction with cytokine and cytokine receptor	KEGG	3	CCL13, CCL2, CXCL1	100	17	21.19	3.499e-4	5.067e-3
NF-kappa B signaling pathway	KEGG	3	CCL13, CXCL1, ICAM1	105	17	20.18	4.039e-4	5.665e-3
Interleukin-4 and Interleukin-13 signaling	Reactome	3	CCL2, ICAM1, IL13	108	17	19.62	4.387e-4	6.031e-3
TNF signaling pathway	KEGG	3	CCL2, CXCL1, ICAM1	119	17	17.81	5.828e-4	7.518e-3
COX reactions	Reactome	1	PTGS1	1	17	706.47	1.415e-3	1.474e-2
Malaria	KEGG	2	CCL2, ICAM1	50	17	28.26	2.220e-3	2.057e-2
Chemokine signaling pathway	KEGG	3	CCL13, CCL2, CXCL1	193	17	10.98	2.353e-3	2.145e-2
TRKA activation by NGF	Reactome	1	NGF	2	17	353.24	2.829e-3	2.444e-2
NFG and proNGF binds to p75NTR	Reactome	1	NGF	2	17	353.24	2.829e-3	2.444e-2
Lipid and atherosclerosis	KEGG	3	CCL2, CXCL1, ICAM1	216	17	9.81	3.238e-3	2.693e-2