

GeDiPNet Cluster 203 -- 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: 2026-10-07 23:57:55

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	19	14.85	2.106e-7	1.256e-5
Interleukin-10 signaling	Reactome	4	CCL2, CXCL1, ICAM1, IL1RN	47	19	53.80	7.643e-7	3.839e-5
TNF signaling pathway	KEGG	4	CCL2, CXCL1, ICAM1, EDN1	119	19	21.25	3.166e-5	8.868e-4
Chemokine receptors bind chemokines	Reactome	3	CCL13, CCL2, CXCL1	59	19	32.14	1.032e-4	2.332e-3
Neuroactive ligand-receptor interaction	KEGG	5	CALCA, TAC1, VIP, ADCYAP1, EDN1	370	19	8.54	2.198e-4	4.248e-3
IL-17 signaling pathway	KEGG	3	CCL2, CXCL1, IL13	94	19	20.17	4.109e-4	6.987e-3
Rheumatoid arthritis	KEGG	3	CCL2, CXCL1, ICAM1	95	19	19.96	4.238e-4	7.160e-3
Viral protein interaction with cytokine and cytokine receptor	KEGG	3	CCL13, CCL2, CXCL1	100	19	18.96	4.927e-4	8.046e-3
AGE-RAGE signaling pathway in diabetic complications	KEGG	3	CCL2, ICAM1, EDN1	101	19	18.78	5.072e-4	8.214e-3
NF-kappa B signaling pathway	KEGG	3	CCL13, CXCL1, ICAM1	105	19	18.06	5.683e-4	8.971e-3
Interleukin-4 and Interleukin-13 signaling	Reactome	3	CCL2, ICAM1, IL13	108	19	17.56	6.171e-4	9.584e-3
ADORA2B mediated anti-inflammatory cytokines production	Reactome	3	CALCA, VIP, ADCYAP1	128	19	14.81	1.011e-3	1.401e-2
Glucagon-type ligand receptors	Reactome	2	VIP, ADCYAP1	33	19	38.31	1.216e-3	1.612e-2
G alpha (s) signalling events	Reactome	3	CALCA, VIP, ADCYAP1	140	19	13.55	1.310e-3	1.707e-2
Fluid shear stress and atherosclerosis	KEGG	3	CCL2, ICAM1, EDN1	141	19	13.45	1.337e-3	1.734e-2