

GeDiPNet Cluster 89 -- 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 00:39:20

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Parathyroid hormone synthesis, secretion and action	KEGG	9	CASR, CYP24A1, SLC34A1, KL, TRPV5, CYP27B1, PTH, PTHLH, TNFSF11	115	49	19.18	7.351e-10	8.173e-8
ADORA2B mediated anti-inflammatory cytokines production	Reactome	7	CALCA, CALCR, IL6, PTH, PTHLH, POMC, PTGER2	128	49	13.40	7.844e-7	3.922e-5
G alpha (s) signalling events	Reactome	6	CALCA, CALCR, PTH, PTHLH, POMC, PTGER2	140	49	10.50	2.087e-5	6.325e-4
Vitamins	Reactome	2	CYP24A1, CYP27B1	6	49	81.70	2.421e-4	4.588e-3
Hormone signaling	KEGG	6	CALCA, CALCR, PTH, PTHLH, POMC, LEPR	219	49	6.72	2.494e-4	4.697e-3
Rheumatoid arthritis	KEGG	4	IL6, PTH, TNF, TNFSF11	95	49	10.32	5.928e-4	9.285e-3
Calcitonin-like ligand receptors	Reactome	2	CALCA, CALCR	10	49	49.02	7.187e-4	1.081e-2
Vitamin D (calciferol) metabolism	Reactome	2	CYP24A1, CYP27B1	11	49	44.56	8.761e-4	1.256e-2
Endocrine and other factor-regulated calcium reabsorption	KEGG	3	KL, TRPV5, PTH	53	49	13.87	1.295e-3	1.694e-2
Class B/2 (Secretin family receptors)	Reactome	2	PTH, PTHLH	18	49	27.23	2.393e-3	2.658e-2
Osteoclast differentiation	KEGG	4	CALCR, TNF, TNFRSF11B, TNFSF11	142	49	6.90	2.628e-3	2.853e-2
Adipocytokine signaling pathway	KEGG	3	TNF, POMC, LEPR	70	49	10.50	2.884e-3	3.042e-2
Steroid biosynthesis	KEGG	2	CYP24A1, CYP27B1	20	49	24.51	2.956e-3	3.093e-2
Neuroactive ligand-receptor interaction	KEGG	6	CALCA, CALCR, PTH, POMC, LEPR, PTGER2	370	49	3.97	3.751e-3	3.654e-2
Defective CYP24A1 causes Hypercalcemia, infantile (HCAI)	Reactome	1	CYP24A1	1	49	245.10	4.080e-3	3.884e-2