

GeDiPNet Cluster 163 -- 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 01:17:56

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	10	CASR, CYP24A1, SLC34A1, KL, FGF23, TRPV5, CYP27B1, PTH, PTHLH, TNFSF11	115	23	45.41	4.484e-15	1.372e-12
ADORA2B mediated anti-inflammatory cytokines production	Reactome	6	CALCA, CALCR, IL6, PTH, PTHLH, POMC	128	23	24.48	1.134e-7	7.044e-6
G alpha (s) signalling events	Reactome	5	CALCA, CALCR, PTH, PTHLH, POMC	140	23	18.65	5.694e-6	2.046e-4
FGFR1c and Klotho ligand binding and activation	Reactome	2	KL, FGF23	3	23	348.12	1.051e-5	3.385e-4
Rheumatoid arthritis	KEGG	4	IL6, PTH, TNF, TNFSF11	95	23	21.99	2.899e-5	7.953e-4
Hormone signaling	KEGG	5	CALCA, CALCR, PTH, PTHLH, POMC	219	23	11.92	4.957e-5	1.230e-3
Vitamins	Reactome	2	CYP24A1, CYP27B1	6	23	174.06	5.238e-5	1.285e-3
Endocrine and other factor-regulated calcium reabsorption	KEGG	3	KL, TRPV5, PTH	53	23	29.56	1.350e-4	2.780e-3
Osteoclast differentiation	KEGG	4	CALCR, TNF, TNFRSF11B, TNFSF11	142	23	14.71	1.393e-4	2.847e-3
Calcitonin-like ligand receptors	Reactome	2	CALCA, CALCR	10	23	104.43	1.564e-4	3.132e-3
Vitamin D (calciferol) metabolism	Reactome	2	CYP24A1, CYP27B1	11	23	94.94	1.909e-4	3.668e-3
FGFR3c ligand binding and activation	Reactome	2	FGF23, GALNT3	13	23	80.33	2.702e-4	4.829e-3
Phospholipase C-mediated cascade: FGFR1	Reactome	2	KL, FGF23	16	23	65.27	4.142e-4	6.812e-3
Class B/2 (Secretin family receptors)	Reactome	2	PTH, PTHLH	18	23	58.02	5.269e-4	8.194e-3
Downstream signaling of activated FGFR1	Reactome	2	KL, FGF23	18	23	58.02	5.269e-4	8.194e-3