

GeDiPNet Cluster 482 -- 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: 2026-10-19 23:21:09

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Glutathione conjugation	Reactome	2	GSTZ1, GSTP1	24	14	71.49	3.432e-4	4.998e-3
NOSIP mediated eNOS trafficking	Reactome	1	NOS3	2	14	428.93	2.330e-3	2.129e-2
Nitric oxide stimulates guanylate cyclase	Reactome	1	NOS3	3	14	285.95	3.493e-3	2.829e-2
Aldosterone synthesis and secretion	KEGG	2	CAMK1D, ATP1A1	98	14	17.51	5.626e-3	3.947e-2
NOSTRIN mediated eNOS trafficking	Reactome	1	NOS3	5	14	171.57	5.816e-3	4.033e-2
Tyrosine catabolism	Reactome	1	GSTZ1	5	14	171.57	5.816e-3	4.033e-2
Fluid shear stress and atherosclerosis	KEGG	2	GSTP1, NOS3	141	14	12.17	1.135e-2	6.148e-2
Tetrahydrobiopterin (BH4) synthesis, recycling, salvage and regulation	Reactome	1	NOS3	11	14	77.99	1.275e-2	6.573e-2
Oxytocin signaling pathway	KEGG	2	CAMK1D, NOS3	154	14	11.14	1.344e-2	6.796e-2
eNOS activation	Reactome	1	NOS3	13	14	65.99	1.506e-2	7.270e-2
cGMP-PKG signaling pathway	KEGG	2	ATP1A1, NOS3	166	14	10.34	1.550e-2	7.401e-2
Regulation of pyruvate dehydrogenase (PDH) complex	Reactome	1	GSTZ1	16	14	53.62	1.850e-2	8.204e-2
Arginine biosynthesis	KEGG	1	NOS3	23	14	37.30	2.649e-2	1.008e-1
Proximal tubule bicarbonate reclamation	KEGG	1	ATP1A1	23	14	37.30	2.649e-2	1.008e-1
VEGFR2 mediated vascular permeability	Reactome	1	NOS3	29	14	29.58	3.330e-2	1.148e-1