

GeDiPNet Cluster 266 -- 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 13:05:37

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
AGE-RAGE signaling pathway in diabetic complications	KEGG	3	NOS3, VEGFA, JAK2	101	24	14.86	1.028e-3	1.369e-2
Signaling by VEGF	Reactome	1	VEGFA	2	24	250.21	3.993e-3	3.753e-2
NOSIP mediated eNOS trafficking	Reactome	1	NOS3	2	24	250.21	3.993e-3	3.753e-2
Defective AVP does not bind AVPR2 and causes neurohypophyseal diabetes insipidus (NDI)	Reactome	1	AVP	2	24	250.21	3.993e-3	3.753e-2
PI3K-Akt signaling pathway	KEGG	4	NOS3, VEGFA, JAK2, IFNA1	361	24	5.54	5.297e-3	4.552e-2
Nitric oxide stimulates guanylate cyclase	Reactome	1	NOS3	3	24	166.81	5.984e-3	4.934e-2
Defective AVP does not bind AVPR1A,B and causes neurohypophyseal diabetes insipidus (NDI)	Reactome	1	AVP	3	24	166.81	5.984e-3	4.934e-2
VEGF signaling pathway	KEGG	2	NOS3, VEGFA	60	24	16.68	6.312e-3	5.131e-2
Kaposi sarcoma-associated herpesvirus infection	KEGG	3	VEGFA, JAK2, IFNA1	196	24	7.66	6.730e-3	5.336e-2
Lipid and atherosclerosis	KEGG	3	NOS3, JAK2, IFNA1	216	24	6.95	8.788e-3	6.391e-2
Hormone signaling	KEGG	3	SST, AVP, JAK2	219	24	6.86	9.125e-3	6.536e-2
NOSTRIN mediated eNOS trafficking	Reactome	1	NOS3	5	24	100.08	9.953e-3	6.891e-2
VEGF ligand-receptor interactions	Reactome	1	VEGFA	5	24	100.08	9.953e-3	6.891e-2
EGFR tyrosine kinase inhibitor resistance	KEGG	2	VEGFA, JAK2	80	24	12.51	1.100e-2	7.359e-2
Vasopressin-like receptors	Reactome	1	AVP	6	24	83.40	1.193e-2	7.721e-2