

GeDiPNet Cluster 568 -- 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: 2026-10-20 00:03:02

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Electron transport from NADPH to Ferredoxin	Reactome	1	FDXR	3	3	1334.44	7.493e-4	9.089e-3
Defective CYP11A1 causes Adrenal insufficiency, congenital, with 46,XY sex reversal (AICSR)	Reactome	1	FDXR	4	3	1000.83	9.989e-4	1.132e-2
Assembly and cell surface presentation of NMDA receptors	Reactome	1	GRIN2C	6	3	667.22	1.498e-3	1.536e-2
Pregnenolone biosynthesis	Reactome	1	FDXR	12	3	333.61	2.995e-3	2.538e-2
Synaptic adhesion-like molecules	Reactome	1	GRIN2C	21	3	190.63	5.237e-3	3.760e-2
Unblocking of NMDA receptors, glutamate binding and activation	Reactome	1	GRIN2C	22	3	181.97	5.486e-3	3.872e-2
Endogenous sterols	Reactome	1	FDXR	25	3	160.13	6.232e-3	4.212e-2
Nicotine addiction	KEGG	1	GRIN2C	41	3	97.64	1.021e-2	5.758e-2
Cocaine addiction	KEGG	1	GRIN2C	49	3	81.70	1.219e-2	6.416e-2
Long-term potentiation	KEGG	1	GRIN2C	67	3	59.75	1.664e-2	7.705e-2
Amphetamine addiction	KEGG	1	GRIN2C	69	3	58.02	1.714e-2	7.849e-2
Circadian entrainment	KEGG	1	GRIN2C	97	3	41.27	2.404e-2	9.530e-2
Glutamatergic synapse	KEGG	1	GRIN2C	116	3	34.51	2.870e-2	1.055e-1
Spinocerebellar ataxia	KEGG	1	GRIN2C	144	3	27.80	3.554e-2	1.190e-1
Alcoholism	KEGG	1	GRIN2C	188	3	21.29	4.623e-2	1.384e-1